

FIG. 1

000000 1344650

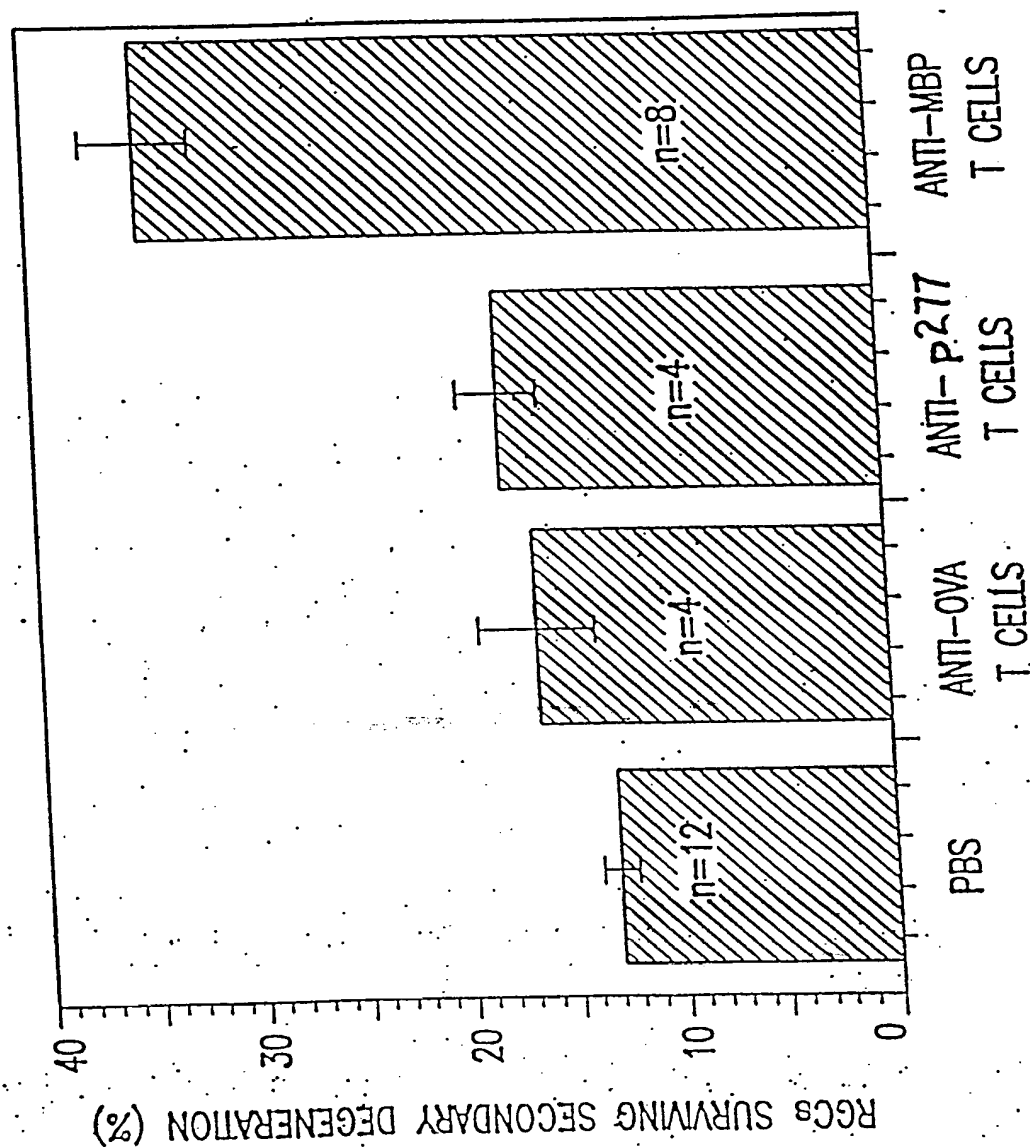


FIG. 2

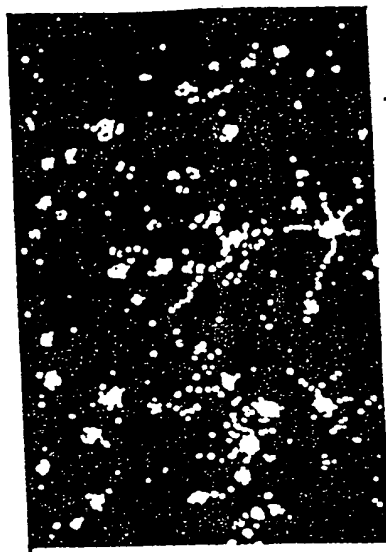
66666 77777 88888



FIG. 3A



FIG. 3B



160 μ m

FIG. 3C

Year	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

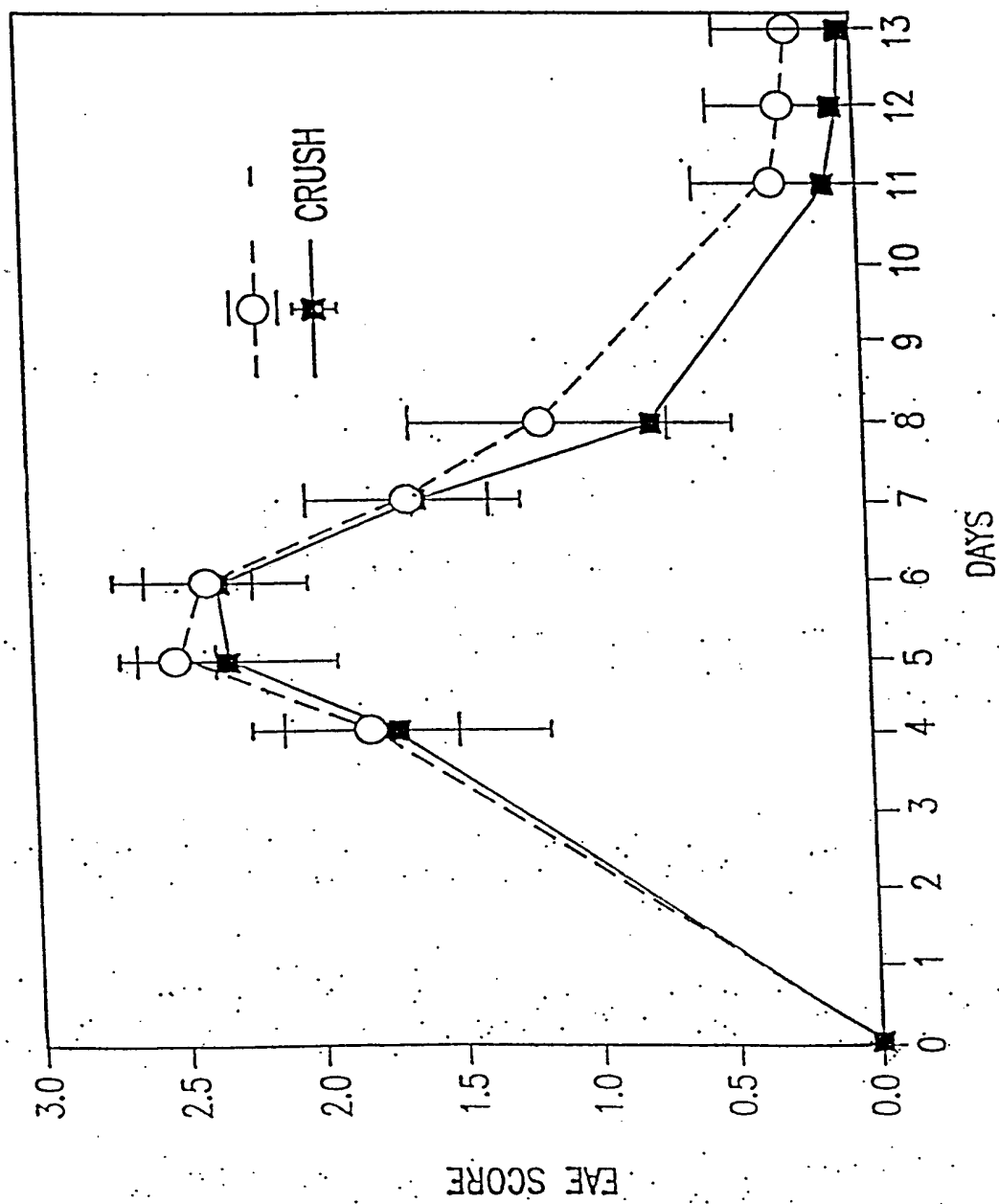


FIG. 4A

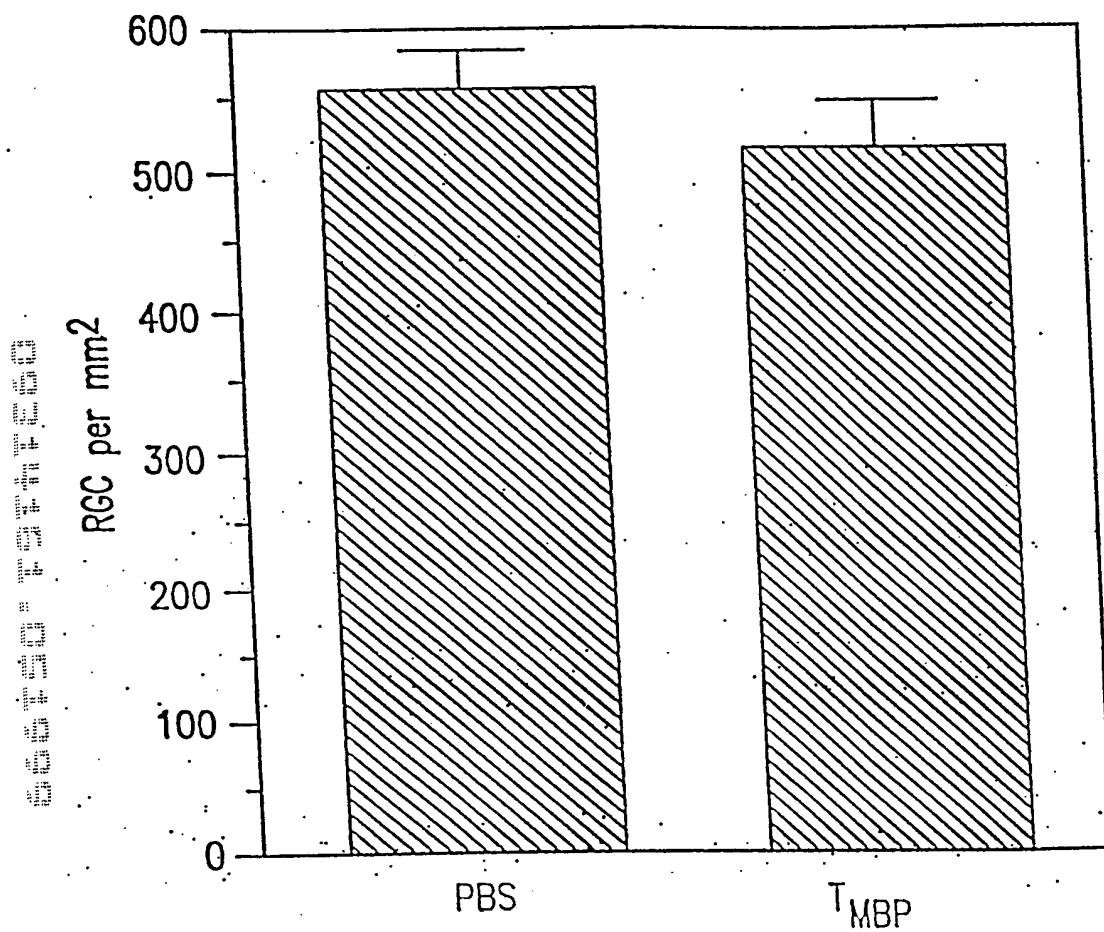


FIG. 4B

68430-24-1-80

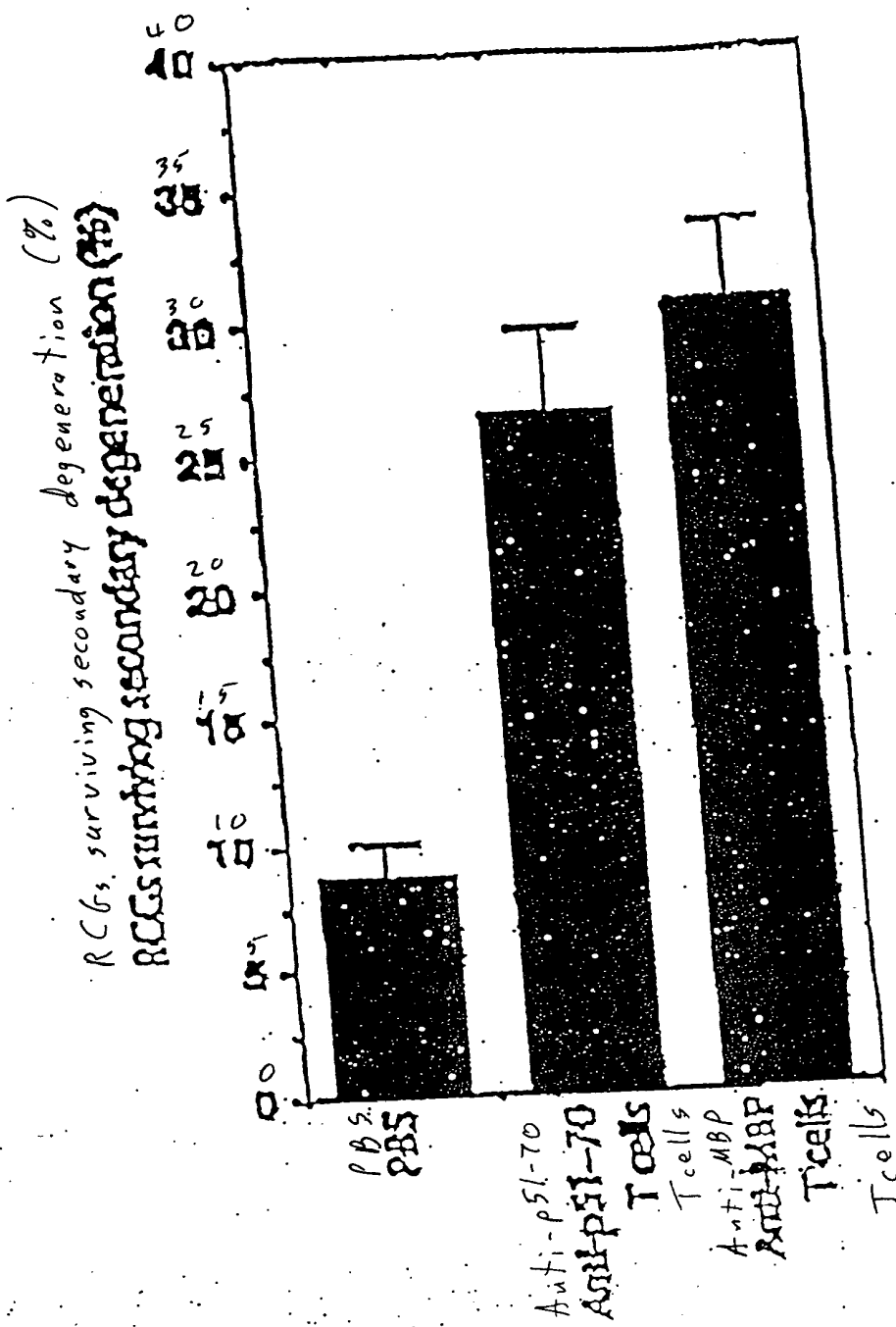


FIG. 5

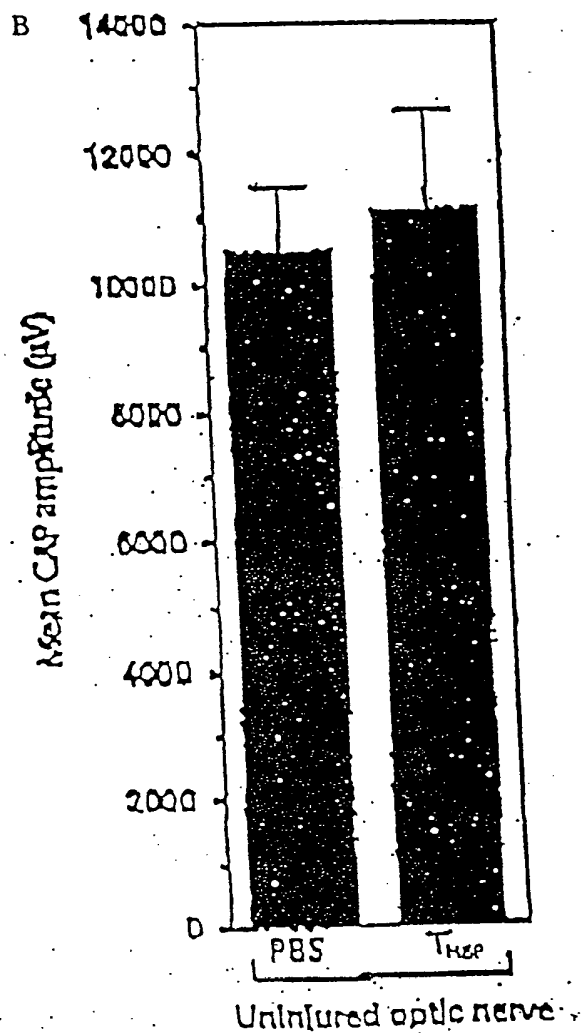
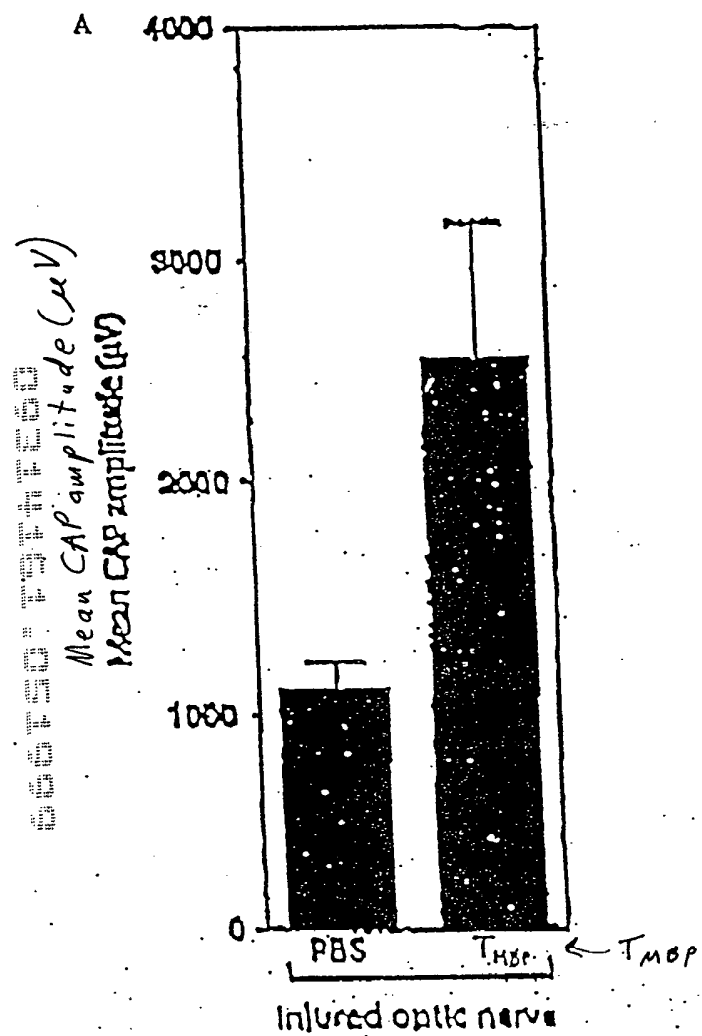
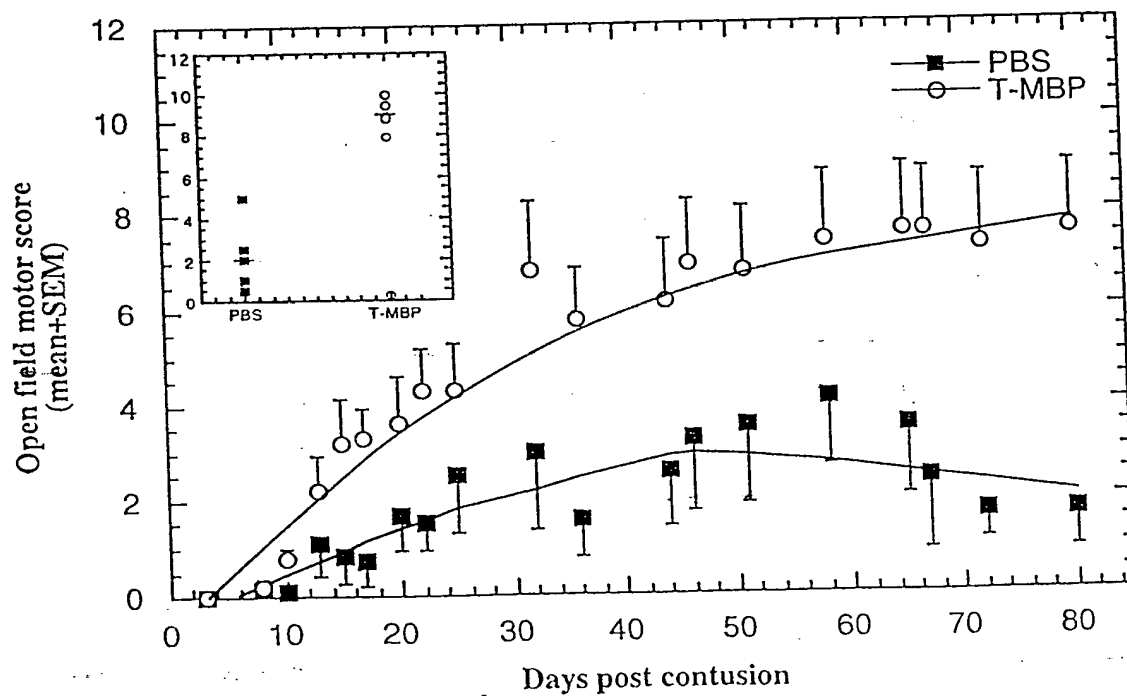
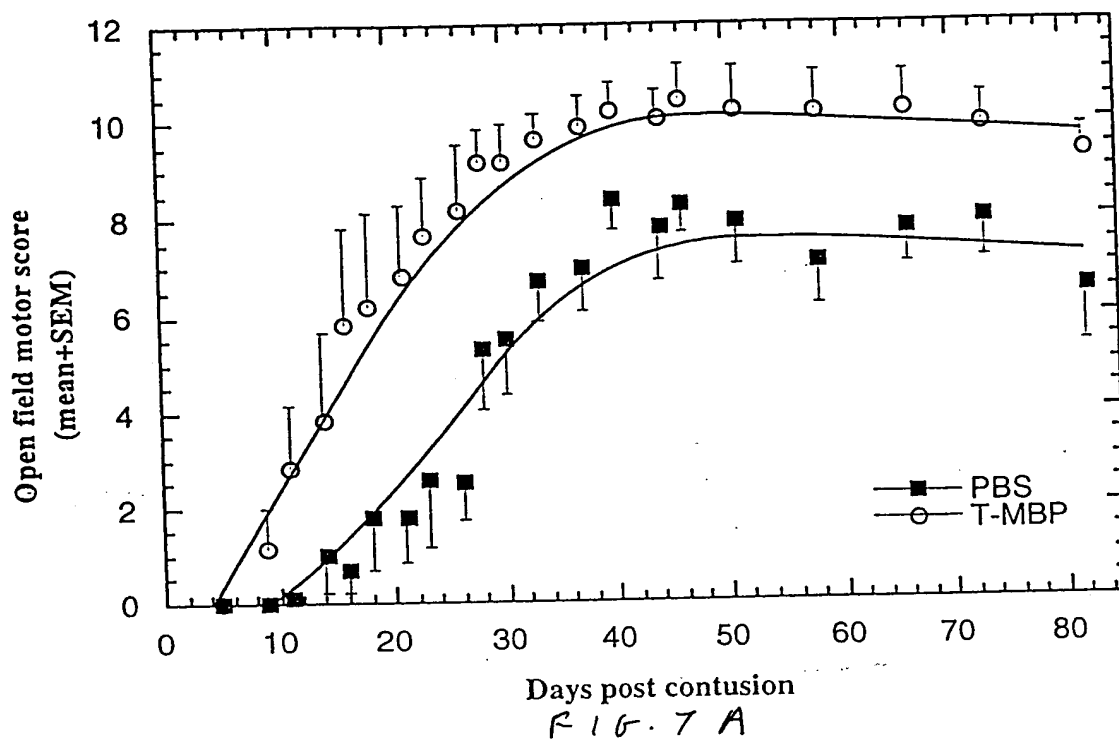


FIG. 6



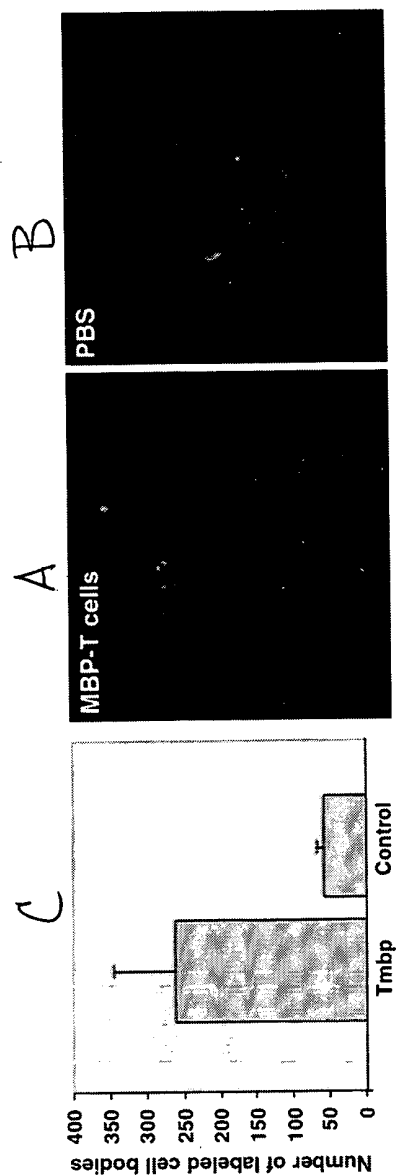
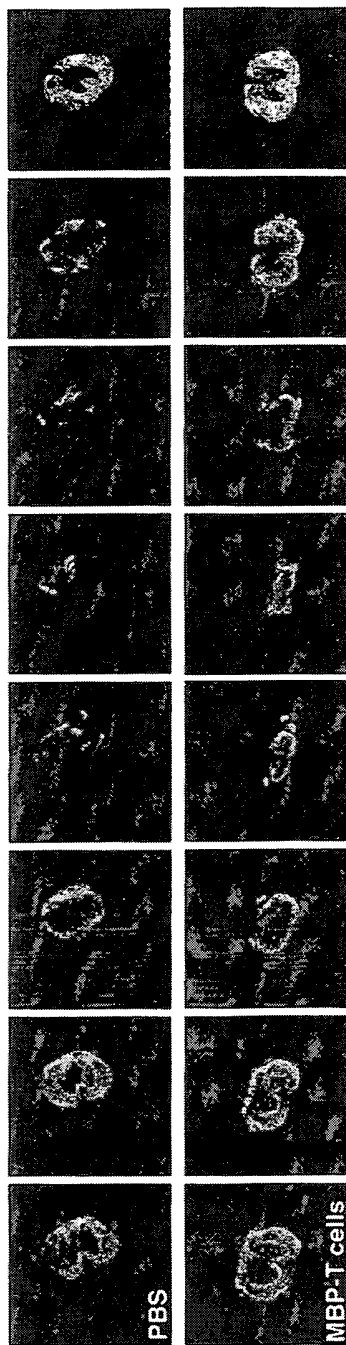


FIG. 9

site of contusion



002130 0411253

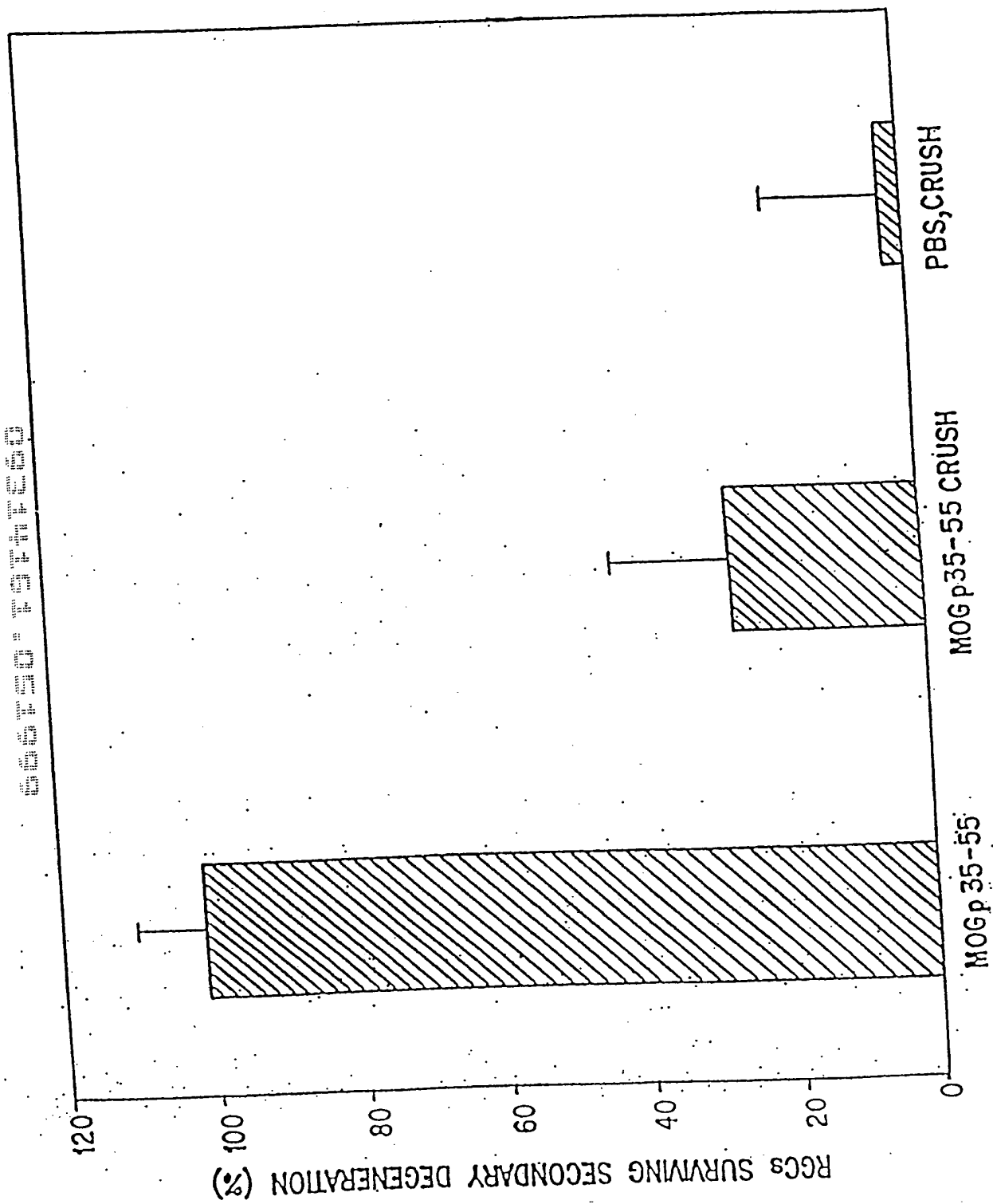


FIG. 10

553 P 23 P 24 P 25

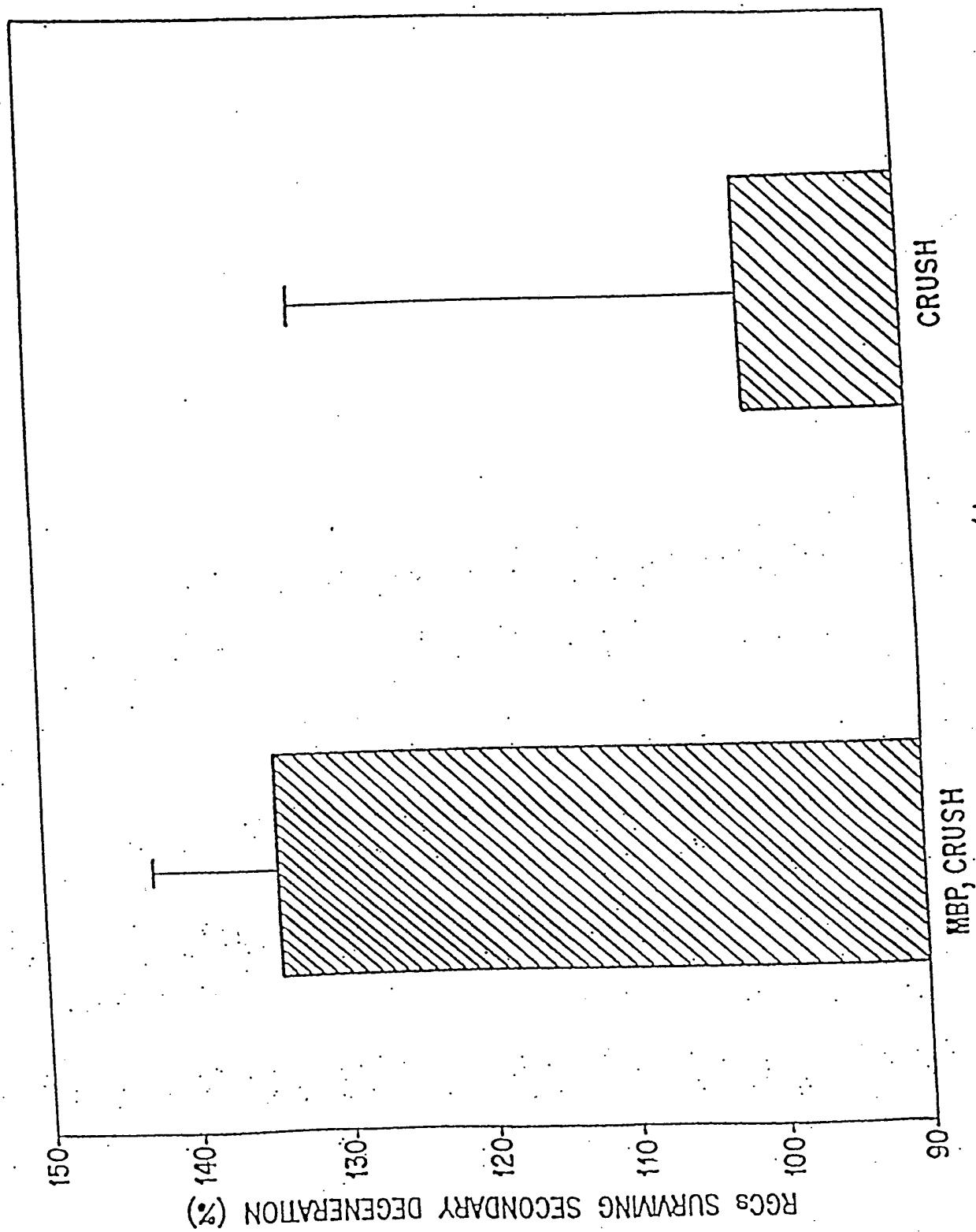


FIG. 41

FIG.12

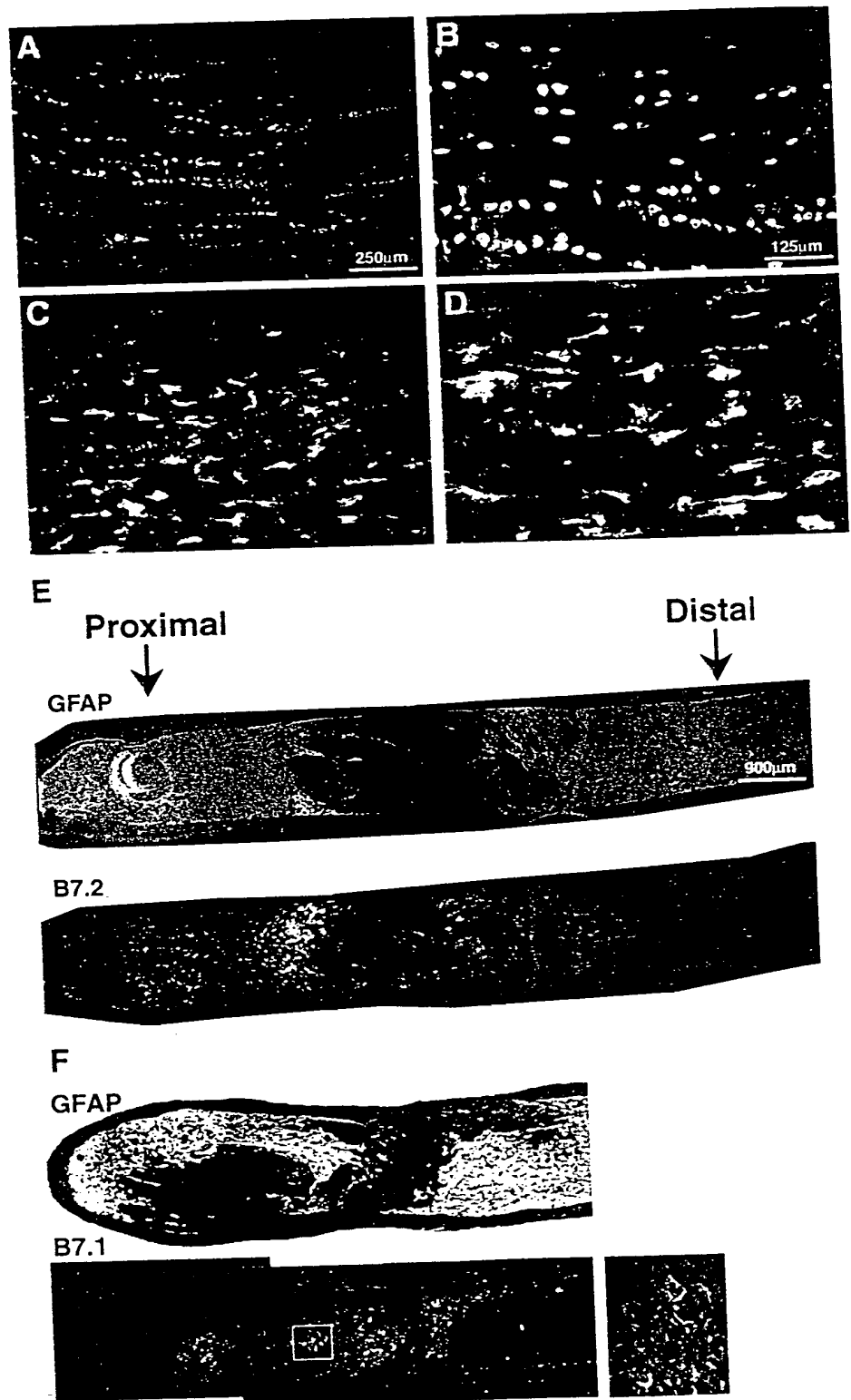


FIG. 13

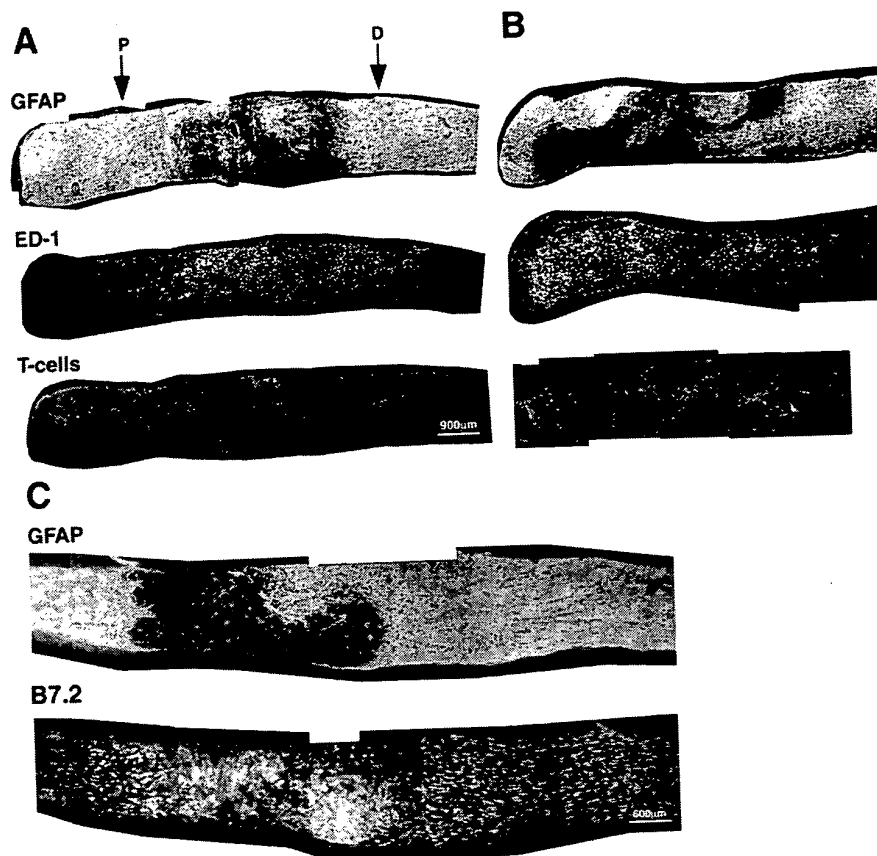
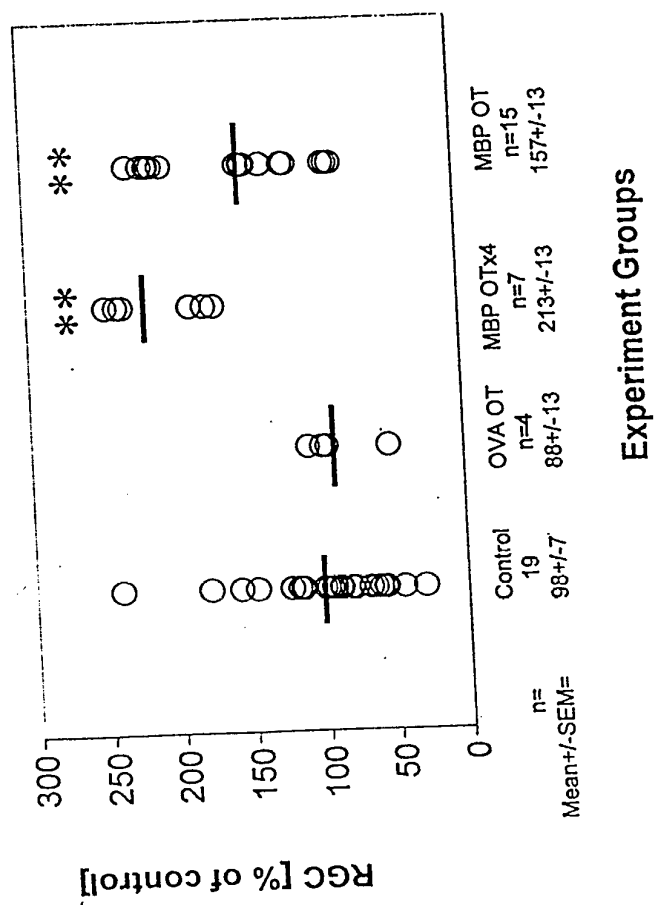


Fig. 11



1 gaaaacagtg cagccacctc cgagagcctg gatgtgatgg cgtcacagaa gagaccctcc
 61 cagaggcacg gatccaagta cctggccaca gcaagtacca tggaccatgc caggcatggc
 121 ttcttcccaa ggcacagaga caggggcac cttgactcca tcgggcgctt ctttggcggg
 181 gacaggggtg cgccaaagcg gggctctggc aaggactcac accaccggc aagaactgct
 241 cactatggct ccctgcccc aaggtcacac ggccggaccc aagatgaaaa ccccgtagtc
 301 cacttcttca agaacttgt gagcctcgc acaccacccc cgtcgcaggg aaaggggaga
 361 ggactgtccc tgagcagatt tagctggggg gccgaaggcc agagaccagg atttggtac
 421 ggaggcagag cgtccgacta taaatcggct cacaagggat tcaaggagat cgatgcccag
 481 ggcacgcttt ccaaaatttt taagctggga ggaagagata gtcgctctgg atcaccatg
 541 gctagacgct gaaaacccac ctggttccgg aatcctgtcc tcagcttctt aatataactg
 601 ccttaaaact ttaatccac ttgcccctgt tacctaatta gagcagatga cccctccct
 661 aatgcctgcg gaggttgtga cgtagtaggg tcaggccacg gcagcctacc ggcaatttcc
 721 ggccaacagt taaatgagaa catgaaaaca gaaaacggtt aaaactgtcc ctttctgtgt
 781 gaagatcacg ttcttcccc cgcaatgtgc cccagacgc acgtgggtct tcagggggcc
 841 aggtgcacag acgtccctcc acgttcaccc ctccaccctt ggactttctt ttcgcccgtg
 901 ctccggcacc ttgcgctttt gctggctact gccatggagg cacacagctg cagagacaga
 961 gaggacgtgg gcggcagaga ggactgttga catccaagct tcctttgttt tttttctg
 1021 tccttctctc acctcctaaa gtagacttca tttttcctaa caggattaga cagtcaagga
 1081 gtggcttact acatgtggga gctttttggt atgtgacatg cgggctgggc agctgttaga
 1141 gtccaacgtg gggcagcaaa gagagggggc cacctcccca ggccgtggct gccacacac
 1201 cccaattagc tgaattcgcg tgtggcagag ggaggaaaag gaggcaaacg tgggctgggc
 1261 aatggcctca cataggaaac aggtccttcc tggagatttg gtgatggaga tgtcaagcag
 1321 gtggcctctg gacgtcaccc ttgcccgtga tgggtggccc agagcagcct ctatgaacaa
 1381 cctcgtttcc aaaccacagc ccacagccgg agagtccagg aagacttgcg cactcagagc
 1441 agaagggtag gagtccctca gacagcctcg cagccgcgc agtcgcccac agacactggc
 1501 tgtgaccggg cgtgctggca gcggcagtg acagtggcca gcactaacc tccctgagaa
 1561 gataaccggc tcattcactt cctcccagaa gacgcgtggg agcgagtagg cacaggcgtg
 1621 cacctgctcc cgaattactc accgagacac acgggctgag cagacggccc ctgtgatgga
 1681 gacaaagagc tcttctgacc atatccttct taacacccgc tggcatctcc tttcgcgct
 1741 cctcccttaa cctactgacc caccttttga ttttagcgca cctgtgattg ataggccttc
 1801 caaagagtcc cacgtggga tcaccctccc cgaggacgga gatgaggagt agtcagcgtg
 1861 atgccaaaac gcgtcttctt aatccaattc taattctgaa tgtttcgtgt gggcttaata
 1921 ccattgtctat taatatatag cctcgatgat gagagagtta caaagaacaa aactccagac
 1981 acaaacctcc aaatttttca gcagaagcac tctgcgtcgc tgagctgagg tcggctctgc
 2041 gatccatacg tggccgcacc cacacagcac gtgctgtgac gatggctgaa cggaaagtgt
 2101 aactgttcc tgaatattga aataaaacaa taaactttt

FIG. 16

A.

1	taatatctag	ggktttgact	ctgacccgtg	ttggggctct	cacttcattg	cttctcacgc
61	ttgtgctgca	tatcccacac	caattagacc	caaggatcag	ttggaagttt	ccaggacatc
121	ttcattttat	ttccaccctc	aatccacatt	tccagatgtc	tctgcagcaa	agcgaaattc
181	caggcaagcc	ttagggaaaa	aaggaaaaac	aaagaaaatg	aaacaatttg	cagtgaagg
241	cagaaagaga	agatggagcc	cttagagaag	ggagtatccc	tgagttaggtg	gggaaaagg
301	gaggagaagg	ggaggaggag	aggaggagga	aagcaggcct	gtccctttaa	gggggttggc
361	tgtcaatcag	aaagcccttt	tcattgcagg	agaagaggac	aaagatactc	agagagaaaa
421	agtaaaagac	cgaagaagga	ggctggagag	accaggatcc	ttccagctga	acaaagtcag
481	ccacaaagca	gactagccag	ccggctacaa	ttggagtcag	agtcccaaag	acatgggtaa
541	gtttcaaaaa	ctttagcatt	gaagattcaa	gaggacacag	g	

B.

1	ctgctttcag	agcctgtgac	ttcttgtgtg	cctctcctgt	ttctcagcaa	catggcatag
61	ggcctgggat	accaggctctg	gggatctcag	ggactcttag	cactttaaga	cacatgtgtt
121	cccaggccct	ggtgtgttcc	tctagtgcga	gaaagatgtt	tcatgctttg	ctgactttgt
181	ataaagtctg	tttgtagctg	ttttgacaga	atctcagcgt	ataactgagg	gtggggacat
241	tagccaagct	gcattatagg	aggacaaaac	tgccatacaa	agtgtccaaa	atcattaagc
301	ctgcattttt	attattggga	gtaatatcaa	acctcctatt	ttccaatttt	catttcttgt
361	cctgtgctag	ctccatcctg	tttggactgc	tcctcccata	tgtaaactaa	gaagaatcaa
421	gcattctttg	caacaaatac	acacgatgct	caaaaatgtc	caggagcatc	caatttccaa
481	agtttctctc	acctggaatg	ctcttcattg	taaaatcctg	acctctgttt	accacttact
541	tggcctgcac	tcctcccttc	ctggaactcc	aagtgcattt	agctaatctt	tcctcaggaa
601	tggctgcctg	aattgttagt	tgaaaatatt	aggtctactt	agctaatctt	tcctcaggaa
661	attaaagact	cccatatggc	agagtctgtg	tcctttctct	cttcataatcc	cgtataacac
721	ccagcataat	gctgggcata	tagtgagtat	tcataaaata	gttgatgaat	gactaaaata
781	agcaagcaaa	caaacagact	agaacaataa	gaaagaaggg	actggatttc	ataatctctc
841	tggcttgcta	tttgaattgc	tgaattatta	ttatttatta	aatatttttt	aaattctggc
901	aataaaaagg	aaggatttat	tttctttctt	tccttttttt	tttcttgaga	cagagtctcg
961	ctcttactgc	ccaggctgga	gtacaatggc	gcaatcttgg	ctcacggcaa	cctccgcctc
1021	ctcctgggtt	taacagattc	tcctgtctca	gcctcctgag	tagctgggat	tacaggcata
1081	cgcccatgcc	cggctaattt	ttgtattttt	agtagagacg	gggttttgcc	atgttggcca
1141	ggctgggtct	gaactcctga	cctcatgtga	tcacactgcc	tcagcctccc	aaagtgcctg
1201	gattacaggc	atgcgccacc	gtgcccggcc	aaagatttat	tttcaagaat	gaaacaaagt
1261	aaggattctg	ggtcaatctc	acatgctgaa	agcctctgag	tttagccgct	cctgcttttt
1321	gacttcggag	tgcccactat	ctccgagcct	gtgagcacag	ggcctggcag	aggggtttga
1381	gtggcatgag	ctacctactg	gatgtgectg	actgtttccc	cttctctctc	cccaggcttg
1441	ttagagtgtc	gtgcaagatg	tctggtaggg	gccccctttg	cttccctggg	ggccactgga
1501	ttgtgtttct	ttgggttggc	actgttctgt	ggctgtggag	atgaagccct	cactggcaca
1561	gaaaagctaa	ttgagacctc	tttctccaaa	aactaccaag	actatgagta	tctcatcaat
1621	gtgtaagtac	ctgcccctcc	acacagaccc	atcttttttt	tcctctctct	cactctggag
1681	atagagaact	cttcagtacc	ttagtaacta	gcaggggact	gggggtggagc	cagaccggat
1741	tcocagagtct	tcctctgtgt	ca			

FIGS. 17A-B

C.

1	ctagaaaatc	cctagccttg	ttaaggtgct	cgctctggtg	tatacctcac	ttatgtcggg
61	aaagaagcca	ggtcttcaat	taataagatt	ccctgggtctc	gtttgtctac	ctgttaatgc
121	aggatccatg	ccttccagta	tgatcatctat	ggaactgcct	ctttcttctt	cctttatggg
181	gccctcctgc	tggctgaggg	cttctacacc	accggcgag	tcaggcagat	ctttggcgac
241	tacaagacca	ccatctgcgg	caagggcctg	agcgcaacgg	taacaggggg	ccagaagggg
301	aggggttcca	gaggccaaca	tcaagctcat	tctttggagc	gggtgtgtca	ttgtttggga
361	aaatggctag	gacatcccga	caaggtgatc	atcctcagga	ttttgtggca	ataacaaggg
421	gtgggggaaa	attgggcgag	agtctgtggc	ctcgtcccca	cccaaggctg	ggctcctctt
481	aggggcctgg	catttgagtg	aggaagcgat	ggctgcagcc	gaacgagaag	gtcaggaaga
541	acgtgggtg	cagctggcct	agcctcacct	ttcaaagggt	ccctaagcaa	atttcttctc
601	aaaacagaaa	gcattgagttt	tgtgggatgc	tttgtacaat	cagaccattt	ctaagccatc
661	tgttggtatc	cctttgttcc	cttctagta	ggtaccacaa	gagtggtatc	aactggacaa
721	gagtcataaa	tgtctcat	gtgattgaga	cttgggcacc	tgagctraga	gggaggatgg
781	ataataaaaa	ttaaataata	actccaaggt	aaatttaca	tgttctgg	

D.

1	gatactctc	attcttcccc	tacccattcc	ccccaccctc	cgttatactg	gggccagtta
61	tctagtagat	actgccaatt	acccttggca	gaggtgcctt	gctcactaat	tttatttggg
121	ggagmgccct	ggaacctggt	tttaattgtc	ggcacacgcc	acttccagga	tctcccagtt
181	tgtgtttcta	catctgcagg	ctgatgctga	tttctaacca	acccatgtca	atcattttag
241	tttgtgggca	tcacctatgc	cctgaccggt	gtgtgggtcc	tgggtgttgc	ctgctctgct
301	gtgcctgtgt	acattttactt	caacacctgg	accacctgcc	agtctattgc	cttccccagc
361	aagacctctg	ccagtatagg	cagtctctgt	gctgatgcc	gaatgtatgg	tgagttaggg
421	tacgggtgct	ttggctctcc	taccactat	ggaagcacta	tatatttggg	tattttctta
481	gtgtaaggag	ggtgggtgatt	atgagaaaaa	tataagatga	tgaatgattg	ggtcttagtt
541	tattaatcct	tccctactga	aaccagagag	gtttcttccc	ccggaaggga	acttgggaagt
601	ggtgggagtt	ttcttggcca	ttcacattgg	cctactctag	ttgactgctg	ttcacaaccc
661	caaagcagca	catttcaata	acaaacacaa	ggttdsacca	ctgttcaata	ccaccttctc
721	ttttttgtaa	acctgtagaa	aagaggatcc	taattgttgg	tagmatccaa	mtttacagcc
781	aggataatta	gagatggaag	aagggctctg	ggggaaagtc	tccatgtggc	ccogtaactc
841	cataaagctt	accctgcttg	ctttttgtgt	cttacttagg	tgttctccca	tggaaatgctt
901	tccctggcaa	ggtttgtggc	tccaaccttc	tgtccatctg	caaaacagct	gaggtgagtg
961	ggttattttg	gttattttac	aagggagtag	ctaataccat	acaaattaca	cccatggcct
1021	tcaattttta	ggactgaaag	tttccctttg	ctggattttg	aattagccga	ttgccttcta
1081	caacatgttg	gctaagtgtg	cctgagccaa	tgagcataga	aggtaaaaca	cctcttttct

E.

1	aattagcaca	cagaaaggat	atccaacaca	tacaaagctg	tnntcatgga	ctacactgga
61	gcatattact	gctgttgcaa	gaaacatttc	ttcttctctt	tttcattttc	ctgcagttcc
121	aaatgacctt	ccacctgttt	attgctgcat	ttgtgggggc	tgagctaca	ctggtttccc
181	tgggtgagttg	actttgaatg	atcttggcaa	gtaaataggc	ctgagatagt	tgtgggtaca
241	gctatttctga	aaggcaagaa	ggtagactgc	ttccatcctt	gaaatgctgg	agggga

FIGS. 17C-E

F.

1 aattctatat actatcacta tggctccact ttggatactc tccagtggat ttagttactc
 61 atatggaaat acctgggagg acctcctaac attattagaa ttgttatgat tataatacaa
 121 ygctatgtcc cagggtcttg caggtcttgc tgatagtgc acagtgcct gtgaatgtag tgtgctcatt
 181 gtgcagatta aaaacctaag gactgaagg gtgaagtgt ttatctgaag ttattttata
 241 aagcagtgt cagacaasct gagctcacag aactccctgg cccctactgc tgagggttcc
 301 atacagagtc aagtaatttc tcacctgtga aaacgaattg attcattaac caggggagag
 361 ctctactgca tgatgtggct gtgtgtctac agcaagcacc ctatgactct aagtcactcg
 421 gacatattga tgtggcaaaag cccaaatatt gttcacttcc ctgaggaaaa ctgagtcta
 481 gatcaaacag aggtgtggaa taaatcttta tgatttgatt ctctgggctt gggccatgag
 541 acccatgatg cctcagagac atcggacttc cagtcaagt tatatggaga aagccaagcc
 601 tgggatgtac tgctttttgc agagcatggg ttttccctt atttagttat gattttattt
 661 ctacccttcc tcattcccaa agggatttga ggagggagtg ctttctttc tactctcatt
 721 cacattctct cttctgttcc ctacagctca ccttcatgat tgctgccact tacaactttg
 781 ccgtccctaa actcatgggc cgaggcacc agttctgac ccccgtagaa atccccctt
 841 ctctaatagc gaggctctaa ccacacagcc tacaatgctg cgtctcccat cttactctt
 901 tgcctttgcc accaactggc cctcttctta cttgatgagt gtaacaagaa aggagagtct
 961 tgcagtgtt aaggtctctc tttggactct cccctcttat gtacctctt tagtcatatt
 1021 gcttcatagc tgggtcctgc tagaaatggg aaatgcctaa taatatgact tcccaactgc
 1081 aagtcacaaa ggaatggagg ctctaattga attttcaagc atctcctgag gatcagaag
 1141 taattttctc tcaaagggtta cttccactga tggaaacaaa gtggaggaa agatgctcag
 1201 gtacagagaa ggaatgtctt tggctcctt gccatctata ggggccaat atattctctt
 1261 tgggtgtacaa aatggaattc attctgcgtc totctattac actgaagata gaagaaaaaa
 1321 gaatgtcaga aaaacaataa gagcgtttgc ccaaatctgc ctattgcagc tgggagaagg
 1381 ggggtcaaagc aaggatcttt caccacaga aagagagcac tgaccccgat ggcgatggac
 1441 tactgaagcc ctaactcagc caaccttact tacagcataa gggagcgtag aatctgtgta
 1501 gacgaagggg gcatctggcc ttacacctcg ttagggaaga accctgtggt ttccaaggag
 1561 tcttctcact ccttctctct tgataacagc taccatgaca accctgtggt ttccaaggag
 1621 ctgagaatag aaggaaaacta gcttacatga gaacagactg gcctgaggag cagcagttgc
 1681 tgggtggctaa tgggtgtaacc tgagatggcc ctctggtaga cacaggatag ataactctt
 1741 gगतगcatg tctttttttc tggttaattag ttgtgtactc tggcctctgt catatcttca
 1801 caatggtgct catttcatgg ggtattatcc attcagtcac cgtagggtat ttgaagggtct
 1861 tgatttggtt tagaatgatg cacatttcat gtattccagt ttgtttatta cttatttggtg
 1921 gttgcatcag aaatgtctgg agaataattc tttgattatg actgtttttt aaactaggaa
 1981 aattggacat taagcatcac aaatgatatt aaaaattggc tagttgaatc tattgggatt
 2041 ttctacaagt attctgcctt tgcagaaaca gatttggtga atttgaatct caatttgagt
 2101 aatctgatcg ttctttctag ctaatggaaa atgattttac ttagcaatgt tatcttggtg
 2161 tgtaagagt taggtttaac ataaagggtta ttttctctg atatagatca cataacagaa
 2221 tgcaccagtc atcagctatt cagttggtaa gcttccagtc atcagctatt cagttggtta
 2281 gcttcccagg aaaaaggaca ggcagaaaga gtttgagacc tgaatagctc ccagatttca
 2341 gtcttttaat gtttttggtta actttgggtt aaaaaaaaaa aaagtctgat tggttttat
 2401 tgaaggaaag atttgtacta cagttctttt gttgtaaga gttgtgtgt tcttttccc
 2461 caaagtgtt tcagcaatat ttaaggagat gtaagagctt tacaaaaaga cacttgatac
 2521 ttgttttcaa accagtatac aagataagct tccaggctgc atagaaggag gagagggaaa
 2581 atgttttgta agaaaccaat caagataaag gacagtgaag taatccgtac cttgtgtttt
 2641 gtttttgatt aataacataa caaataacca acccttccct gaaaacctca catgcataca
 2701 tacacatata tacacacaca aagagagtta atcaactgaa agtgttctct catttctgat
 2761 atagaattgc aattttaaca cacataaagg ataaactttt agaacttat cttacaaagt
 2821 gtattttata aaattaaaga aaataaaatt aagaatgttc tcaatcaaac atcgtgtcct
 2881 ttgagtgaat tgttctattt gacttcacaa tagaaactta ataatcgtac cttctcaaga

FIG. 17F

1 atggaaatgt tctgtatttg tgtgtctga tgagataacc actaactgta gtgctattga
 61 gcatttgaaa catggctagt gtaatcaatg aaccaaattt ttaattttat ttaattgtaa
 121 ttaattttta gtggccacat gcagggagtg actgctgcat tggacagcac ggctctaaat
 181 tgagcctttt ttccttattt ggtgaggcat acttgcccta agattgggaa gtctattttt
 241 ggaacctgct accaatgctg gtctcacact tgcaattctc agctgagcca agagggtgaga
 301 gaaagggtcat tttccattcc aagatctcac tctcccctgt gacactgagg aaactggcaa
 361 gtgatgtgaa ggctggagag cgtgtcctgt atgctggctc tgtcccctct gcctgtgttg
 421 actgacatag ttagttgctg cccttgctgg tctcccctcc tccaaccttg cctctctgag
 481 cacacctgac attcatctca tgacttccct aaaaacattc tttgggaaca agaaactaac
 541 aaatcccaag tgacctatca catatacaaa catacagggc agagtttggg ttcgcggtag
 601 aagaaaggga ggtagacat taagaagaat ggtctggtga tgacagttgt gagataatag
 661 aaacaggaaa aagaaatcta agttttcttt ctttttttaa gaaccaataa taatttctct
 721 cttttgacta gtcagtaggg ctggggtgga ttggaggaag cttacatatt ccatgaacaa
 781 gcctcttctt aaggctctgt aagtgtcctt gccccactga ttagccctta gaagacctt
 841 caaaggttgg atctccagga gggagtgagg gaggaagacc ctgtaccagg cagcctctgc
 901 tccattgctc tgggggggtg gggaagacaa accctggtea tcccctcagt ctgtagccct
 961 tttgtgtgag tgcctggcaa gggtagcgtg gggctgtttc tgcgggcaca gctgcagcaa
 1021 ttaccggagt ggaggcaggg cccaggcagc actgccctcc aagatcttcc cttgggcttt
 1081 tcagcagtaa ggggacatgc accccaaggg cctccacttg gcctgacctt gctgcggggg
 1141 ctctctgtcc ccaggaacag tagagatggc aagcttatcg agaccctctc tgcccagctg
 1201 cctctgctcc ttcctcctcc tctcctcctt ccaagtgtct tccagctatg caggtaagac
 1261 atgttttttt tccctgcctg gggagaccct gaaaacagaa aggctagttt cctgggggtt
 1321 agctccttca aacatcctca agttgggata ttatctttct aaaacataga cctactgaca
 1381 tgccctccctt cctcagaaac cttccgtggg tggttcttac agccttcaag atggagtcca
 1441 gactcttttt tttttttggg acagagtctc cctctgttgc tcaggctgga gtgcagtggc
 1501 atgatctcgg ctactgcaa cctcagcctc cctgggtcaa gcgattctcc tgacttggcc
 1561 tcccaagtag cggagactac aggcgcctgc caccacaccc agctaaaattt gttcttttct
 1621 ttcttttttt ttttttttgg gatttttaga cagacggggg ttcacatgtt ggccaggatg
 1681 gtctcgatct cttgacctgc tgatccgccc gctcagctt cccaaagtac tgggattatg
 1741 ggcgtgagcc actgcactag gcttaatttt tttattttta gtagagatgg ggtttcctca
 1801 tgttggccag gctgggtctg aaccctgac ctcaagtggg ctgccctcct cagcctccca
 1861 aagttctgag attacaggca tgagccattg cgtctgaccc agactcctta atgtgactaa
 1921 ctccaggctt tcttggact acttcttact tgtctttcca gctttgtctt ttcacctctc
 1981 caattgagat aaaataataa caacctcttg gagttctcat caggattaca tgaaatgaga
 2041 tatgtaacat gcttagcagt gcctgtccat agtaaatctc aataaatgtt tgtggaatta
 2101 taatatcttg tcatgtttga gactttgtct tgcataatca ggcaccagta ggtttttata
 2161 aaggaacccg tctgtcacgt gcagaggaga aataaacaga aagtttccca tctcaggga
 2221 gccacctgac tgacagaggc acagtgcac cactctccag gtctagggga gaaagcagcc
 2281 ttattttctta gtactcaga atctgacttg agaaacacat ccacatagaa aaaaacaagg
 2341 aactttttcg ggtcagggtc cgggaccac agtgagggtg aagatacagg ggaagggaaga
 2401 gggaaaataga gccatcccga ggggtggaaga tctcagaaga gaatttggga aacaaggat
 2461 gaacaaggac tgaatagtga gaagtgtagg agagacagct aaagtagatg gagtgtcaaa
 2521 accaaaacct ctaagggtag aataggcagc aatttggcca agtcctaaca gggaggccca
 2581 taggaggatt caacctcaag atgctgtgcc acattccaag agggaaacct aaggctgggc
 2641 tgaagagtca gagatggcta cagctggcaa aaagatgggc agatgctgag aggagatgat
 2701 tgctaaaatg ttctgtccag gacattcaca gtatctctat aaccagagtc tttttgtctg
 2761 ttgttgttct caagaaggaa acttgaggcc ggggtgtgtg gtttatgccc ataattccag
 2821 cgctttgggg ccaaggcagg cggatcacct gaggtcagga gttcgagacc agcctggcca
 2881 acagtgtgaa acctcatctt tactaaaaat acaaaaatta gctggatgcg gcggtagggtg
 2941 cctgtaatgc cagctactcg ggaggctgag gcaggagaat cacttgaacc tgggaggcgg
 3001 aggttgcagg gaggcggagg ttgcagttag ccaagattgc accactgcac tccagcctgg

FIG. 18

3061 gcgacagaga gtaagactgt ctcaaaaaat aaatgaataa ataaaaagga agaagaagaa
3121 gaagaacaat tgcaatcctc cctggctcta gaatgtcatt taaaagtcga gtgtcttctt
3181 ccttccctgt tttgaagcag cccttctcat gacaggcttg cttgccaagg ttccctctga
3241 ccttaaatct cttccttttg gtgtcttgga cagggcagtt cagagtata ggaccaagac
3301 accctatccg ggctctgggc ggggatgaag tgggaattgcc atgtcgcata tctcctggga
3361 agaacgctac aggcattggag gtgggggtgt accgcccccc cttctctagg gtgggtcatc
3421 tctacagaaa tggcaaggac caagatggag accaggcacc tgaatatcgg ggccggacag
3481 agctgctgaa agatgctatt ggtgagggaa aggtgactct caggatccgg aatgtaaggt
3541 tctcagatga aggagggttc acctgcttct tccgagatca ttcttaccac gaggaggcag
3601 caatggaatt gaaagtagaa ggtgagtagt gccatataat attaggtatt aactgttggg
3661 tggccaagaa caattattct ctcaactgag atgagatccc tcaacccaaa catctcagtc
3721 ctgggaatga tttccataaa aatgtacaca tcaataaaca gaaactcatg cttagggatg
3781 tctgttgcat cattattcag agtagcaagg aaattgggat caaaatcaat gcctttgagt
3841 aggtaatgta cagaatgaac aatggtagcc atactgtgaa tattatgcag ggattaaaaa
3901 gattatttta gcactaggcc agatgggttg gggggctcct ctaagggtatt attgagtgtat
3961 aagagcaagc tgctgtagga taaaaaaca aaaacaaaac cctagggcat ggtgggttgc
4021 ctgcgcagta ctcaggaggc tgagacggga ggctggcttg agcccagggg tttgcagtta
4081 cagtgcagta tgattgcacc actgcactcc aaccgggggt acagagcaaa gaccttcacc
4141 cccactccct acccgctctc aaaaaaaca aaaacaaaaa caaaaaaacc cttggggcca
4201 ggcgcgtggc tcacgcctgt aatcccagca ctgtgggagg ccgaggtggg cagatcacaa
4261 ggtcaggaga tcgagaccat cctggctaaa acggtgaaac cccgtctcta ctaaaaaaac
4321 aaaaaaaaaa aaaaaattta ggcagtgatg gtagcaggcg cctgtagtcc cagctactcg
4381 ggaggctgag gcaggagaat ggcgtgaacc cggaagcgga ggttgtagtg agccaaaatc
4441 cttccactgc actccagcat gggggacaca ggcgagactcc gtctcaaaaa aaaaaaaata
4501 accctgtatt tgtgagcgca cacacacaca cacacacaca cacacctgtg cttggtccta
4561 gtgaataagc aagtaaatca aatgtctaaa tataattata gaaaggagat gtcacctttt
4621 ggctgtacct ccactatttc attctgcaga attgcagaat ttcttttttt ttctcttctt
4681 ttcttttctt tttttttttg acacagagtc tcgctctgta acccaggctg gagtgcagt
4741 ggcgcctccg cctcctgggt tcaagtgtat ctctgcctc agcctcccca gtagctggga
4801 ttcacagggtgc ccaccaccac acccagctaa tttttgtatt tttagtagag acagggttct
4861 accagggtgt caagggttgt ctcaaactcc tgacctcagg tgatccactc gctcagact
4921 cccaaagtgc tgggattaca ggcattgagcc atggtgcccg gctcagaaat ttcttttca
4981 acatgttttg catgatgggt gattttggag aatatttttt gctctatcgc aggatgatta
5041 agatgtggac aaggtgaagc cgatggaggg ggagctttga aagttacttg ctatttaatt
5101 gaggaactaa actgctttga gagcctgggg gtcagatcct ctgccttttc ctcctcccca
5161 cctgcagtgcc aaacatcaga caattgatca ctattgtatc ttggagggtg gagtgcacct
5221 tgcagtgctg ggaccagaag atggcattgt atgtggaaca acaaagcact atttctagag
5281 actgcctgca gggatatgga aatagcttta tgtgtctcag aatgttcttc atacagctgt
5341 ttttattggg gaaattctac ttgccgaaaa gtttgatagt gagacctctc ccagtttgca
5401 gatttttctc cttcctgctc aacaacttcc tagctcagta actgcctctc ccaacaaact
5461 cctcagttt caccacacca aaaaagggaag acaagccggt tgcggtgggt cacacctata
5521 atcccaaaac tttgggaggc cgaggcgggt ggatccacct gaggtcggga gttcgagact
5581 agcctgacca acatggagaa accctgtctc tactaaaaac acaaaattag cctggcgtg
5641 tggcgcatte ctgtaatccc agctgggagg ctgaggcagg agaatcgctt gaaccccgga
5701 ggcggagggt gcagtggacc aagatcgctc cattacactc cagtctgggc aagaaaagt
5761 gaactccatc tccaaaaaaa aaaaaaaaaa aacaagggaag acaaaaagaa aagcagctaa
5821 agactttgcc tcaggggaga aagttctctt ttgggttgct atccacattc caacctcctg
5881 tttccacctc ttctgtctga tgcttaagaa actgttttac aagtaataaa gggacgcttt
5941 gtctaggctt tggagccagg aagttgagac aaatttagga atgagatgaa gtaatggat
6001 tattgcaagt ctcagggtga actacctctg ctctttctct gaagagtttc taatttctct
6061 tgtttactta ttttttctt gtcatttttt ggattttatt actagttgtc tctaactcct

FIG. 18 (cont.)

6121 tcttttaaatt cttcattatg aaacataaaa acaaattgcc ggcgcggcag ctcacgcctg
6181 taatcccagc actttgggag gccgaagcgg gcagatcacc cgggtcagga gttcgagacc
6241 agcctgatca acatggagaa accccgtctc tactaaaaaa tacaaaatta gctaggcgtg
6301 gtggcacatg ccagtaatcc cagctacttg agagactgag gcaggagaat cgcttgaacc
6361 gggaggcaga ggttgcggtg agccaagatc gcgccattgc actccagcct gggcaacaag
6421 agcaaaaactc tgtctcaaaa aaaaaaaacc acatacaaac cagagataat attataatga
6481 gcctccaagt gcctaccacc ttgctgcagc acttgtcaat ccagggaaca cccacctcac
6541 cggctcccca ctcattacca cctccccccta ctcaattact gaggtaaatc ctaggcagca
6601 tgatcatttc ttttttttct ttttatttat tttgagacag gatctgtctc tgtcaccag
6661 gctggagtgt agtggcatat ctctgctcac tgcagcctct gcctcccggg cagaagccat
6721 cctcccacct cagcctacat agtagctggg accacaggca cacaccacca cacactgcta
6781 atgttttcta tttttttag agactgggtt ttaccatgtt gatcaggctg gtctcaaact
6841 cctaggctca agcaatcctc ccacctcggc ctcccaaagt gctagaatta caggcgcgag
6901 ccaactgcacc cagcgaagaa cactttttta aaaataaata ggccgggcgc ggtggctcac
6961 acctgtaatc ccagtacttt gggagcccaa ggagggcgaa tcatgaggtc aagagattga
7021 gaccatccta agtaacatgg tgaaacccca tttctactac aaatacaaaa acaaaattag
7081 cctggcgtgg tggcaggcgc ctgtagtccc agctacttgg gagctgaggc aggagaatgg
7141 agtgaacccg ggaggcggag cttgcagtga gctgagatca tgccactgca ctccccctg
7201 gggcaacaga gtgagactcc caaaaaaa aaaaaaagcc cccctcccc acacacaata
7261 atataaataa ataaataacc acaatactat tatcacatct taaaaactca acaaaatttt
7321 cttaatatca tcaaataccc agtttgtgtt caaattttcc tgattgtttc ataaatatac
7381 tcttacagtt ggtttctttt agcgagattc aaatgagacc cactgttgga cctttgcctt
7441 tagggtttcc caggggtctga atttgttga cgacattccc atgttgctat gtaatacggg
7501 cctccatgcc ctgtgttttt ctgtaaactg atagatgtgg aggtgcaatg acatttgtgt
7561 ttgatttact ttggcaataa tagttcatca gtgatactct atacttcttg ttgctttaca
7621 tccggaggct gataatgtct gcttttctct cttttcta at tttttgtgaa aggaaaaatg
7681 tgggggggtg ggagaaaaaa acccttaagt acatactcgc taaatcacat tgctacaggt
7741 aacttccatt aagaacttga aagtaaagggt agctgcattt tcccctaggg aacacaatga
7801 tagacaggag ccttagtcta cagcttgaag gattgtaatt atacctaacg aaccctcctg
7861 gaccagttta atgttattag ctgtgatgta tccctacctt tgatgtcatt atccttactt
7921 agctccctta aagcagagat caagatgaaa agggcttcag ctgcagcatg gcacatggag
7981 attagagtgg ggcttttgga tgctgaggag cagacctaga atgggaaata gatgggagcc
8041 acagaagtga aggtcccccct cctcatttgc tcaacctact ccacatctcc aggtctgcac
8101 atctgttcag ttactgaatc ctgtgtaagc taccttcttt ttcttttttc ttttatttat
8161 ttatttattt tttttttgag atggagtttt gctcttggtt cccaggctgg agtgcaatgg
8221 tgcaatctcg gctcactgca cctccaact cccaggttca tgcaattctc ctccctcagc
8281 cttccaagta gctgggatta caggctgcac caccatgtct ggctaatttt tgaaaaatca
8341 gtagagagag ggtttcacca tgttggccaa gccggtctcg aactcctgac ctcaagtgat
8401 ccaccacact tggcctccca aaatgctggg attacagggt tgagccacca tgcccgctgt
8461 aaactacctt cttaaaagct ctagaagagg gcttttaacc ttttgttgtg tgtcatgcac
8521 cttccgcaag ctgatgaagt tgatagaccc atctcagaat tttttttttt tttttgagac
8581 agtgtctcac tctgtcaccc aggattggtt gcagtggcac gatcatgggt cattgcagcc
8641 tccacctccc aggtcgaagt gatcctcctg actcagcctc ttgaatagct gagaccacag
8701 gcttgtgtca ccatgcccag gtaattttta attttttttc gtagaggcag ggtctcacat
8761 tatgttgccc agtctggcct cgagaactcc tgggctcaag caatcttccct gccttgggct
8821 cccaaagtgg tgggattaca ggggagagcc accacaccta gccaggagga tgttttaaat
8881 acaccaaata aacattttat acccaataac agttatccaa atatttaaat aacaagagtt
8941 aggggtgacc tatttaattag tgtaatttcc aaatagtaat gaacataagt gatagtttga
9001 gatttctgtg acttttctaa tgtgacgtga aaatatttgi gatttttctt tttctttttt
9061 ttttttgaga tggagtttct ctcttgttgc ccaggctgga gtgcaatggc aagatctcgg
9121 ctcacctcaa cctccgctc ctgggttcaa gcgattctcc tgccctcagcc tcttgagtag

FIG. 18 (cont.)

9181 ctgggattac aggactgtgc caccacgtcc agctaatttt gtatttttag tagaaacagg
 9241 gtttctccat gttgggtcagg ctgggtcttga actcccaacc tcaggcgatc cgcccgccctc
 9301 ggcctcccaa agtgctggga ttacaggtgt gagccaccgc acctggccaa tatttgtgat
 9361 ttttattgac gacaaagtca aaggttctct tcatattatt gtgggtgtatc gcctacaagc
 9421 ataattaaaa taaacactaa atttcagttt aaagtttact gaaaataaat atgtattttt
 9481 tattccctat ttaagctttg aatcccctga cttectatac cattaccact gtcctagttc
 9541 aggttcatgt tgttttttac ttttaattgtt atcacagtct cttaacattt ctccctatgt
 9601 tctccagtcc tgtagggtgt aaatctgacg tggtcacttc tcagcttgga atccttcagt
 9661 gcaccaccac agccttgaac tacatatattg aaatacatat ttattttcag taaacttta
 9721 actgaaattt agtgtttatt ttaattatgc ttgtaggcga tacaccacaa taatatgaag
 9781 agaacctttg actttgtcgt caataaaaag tcccttgagg ggacttcaga tgaagtccc
 9841 ttagtgtctg gttaaaactc cccaggtcg acccaatata caatcttgac tttaaaccac
 9901 ttgtcattct aaatcactag catttctctg aaaaaaagc catttttctt tcagggtcaa
 9961 gctcagggac caattctgtg tcaccttctt tgaatcctga tgatattcac ttctttattt
 10021 gacctgattt attgggcccc agacaccatg ctgagtgttg gggattcagc tctggacaat
 10081 gtcaaagtgc agtccctgct ttccagatcct ttctactggg tgagccctgg agtgctgggt
 10141 ctccctcgcg tgcctgctgt gctcctcctg cagatcactc ttggcctcgt ctccctctgc
 10201 ctgcagtaca gactgagagg tacagggcag aggggtgggtg gatcaggatc cttcttttaa
 10261 atgagctggc ttcttgagc tacaccaact aacatgtatt tgtgagtac ttctgggttc
 10321 agaagttctt ctactattg agtgataaag aaaaaaata actccatgat gaaagagttt
 10381 tacatcttac ggaatgcttt catatgaata atcggacctg gcatttccct atgagctaac
 10441 tatgccatat agtaacccca ttttacagag gatacaactg aggccaggag tagttcagt
 10501 acttactcaa accgatataa cttataagtg gtagagctga ggcctctgta tcatacctag
 10561 cagctccatg caacttggga gagtgtgagc ttcgaagtca gacaggtcta ggcattagg
 10621 agttttgaat aaagatactg aagtgaagt ctctaccaca cagtaggcgt tcgaaaattg
 10681 ttctctcttt ctccattcaa cactgaggac tcagggttcag ctgctgatga agctcctctt
 10741 ttttgcctag agctttcatt ctgagccttc tctctctacc aagtgtctcc ccaatgccag
 10801 agcaggaaga gtcttcaact ctcccaatgc cccacctccc atttgttact aagaggagag
 10861 gagaaagttag caaggagggt atggggaatg ttctggggga atgggtgttg gtgcgatcaa
 10921 caacaaagtc ctttctctca ccttgaattc atcccagatg cctgcttggg tacttcttcc
 10981 acacaaaaaa aggccttcag cccctcatggc tgagcagaaa gaatctgaat gttagagtca
 11041 ggcagcctgg gtttgaattc catctcaggt actgaactct atagcaaat tcttagattc
 11101 tccaagcttc agttgcctg tctgtcaaat agagaaaaca tccctcgtcc taaattgtag
 11161 ggaggattaa agtcatgcaa agtgcctact acaaatccag tcacaaagta gctagctact
 11221 cactaaatgt tcagctctc cctcctcatt cagatgggaa gtggctttag ataaacaaag
 11281 tggcaacgca gtgggctgga gcagctctgt gaactgagaa tccaagaaaa ggggcgaaga
 11341 gcagctggga tgtattgat gcttgtgctg gcttggagca ttgctcacat tctttattcg
 11401 ctattgtatc tagactatag ctgagaaaag agccgcaacc attggcttta aatccagtgc
 11461 tcttctact ctctgaggt tgtttccagg ctgcagagaa atagcctgca caaggggccc
 11521 aggcgctggg tgtgggaggg tccccaccga gagccagaac atgcaggaac taaaatgttg
 11581 cctttttcta ttttaggaaa acttcagaca gagataggtg agttccagtc atcgtttctc
 11641 ccaattcttg ccttttggtt ttttggcata acggaaaatg tccatttctt ggaccgtctc
 11701 tccctctcaa taccctgttt tcccctcagt ttcccttct ctacagtggg tgtgtcgtgc
 11761 ctagaacaag ttttaagtaa ttaaataaca aagactcagg ataaaaggat cctttttgga
 11821 gtgccctact aaatccattt ccatttgttt ctctttcaga gaatctccac cggacttttg
 11881 gtaagttccg gcatgtctag gccctcccag gtcaacttgg tatttcactc tagttccagt
 11941 cacctggggg aacaaggacc cctggctcct ggttgagtcc cttcctctct tctctttctt
 12001 ttcttttaaat aagaagtcatt ttgcatttag gattggtaaa atcataataa aaatactcat
 12061 gtactgtttt tatgtgccag gcactattct aactacttta caaaaacgtt atcttattct
 12121 gtttaactcc ttatgcacat gatctctctt ttcagggaatg ccaaacagaa ggtaaataga
 12181 tegttttacac gtaaacctga tgtctgggtg gggagggtgaa acaaacagaa acaagacaca

FIG. 12 (cont.)

12241 actgtatcac ctgtacttat atttctgctt tacaaactca ggatgtttcc atgagtacag
 12301 aacatgacta atcagagaag acctcataga ggaatagaaa agccaccaag cccactagg
 12361 aattgacccc tcaaggacat ggtttctagc ctttttggtc actgcagatt gcccaatgcc
 12421 taaagataat ggcaacagaa gagcacccaa atatttggtt gataaatgtt gcagacacta
 12481 gaaggtgtca ttagggcaca gatggtacct tctctgagca aacttccttc acagctcctc
 12541 ctcccagggc ttaggtgac tctactcttg tcacctggca cacagagttc tatcgtagca
 12601 tttaggaaat tagaccagt tgtggaccac acacacacac atctttacac acccaaagag
 12661 gaggaatagt atctttgttt tggaggactt gactatgaaa ggtcttaact cttttttgta
 12721 ccatgaatct ctctggcact ccagtgaagt ctaaaggacc cttttgcaga atgtttttta
 12781 atatacacat aaaatagaac acataggatt gcaaaaaaca tcattgtact aaaatacagt
 12841 tatcaaccga taatcacatt tgtgatatag taacataaat gtttcttttt ttttttttg
 12901 gaggcagagt ttggctcttg tcacccaggc tggagtggaa tggcgcgac taggctcact
 12961 gaaacctctg cctcccgggt tcaaggact ctcagcctcc tgagttagct ggattacagg
 13021 tgcccgcac cacaccagc taatttttgt attttttagt gagactaggt ttcaccagg
 13081 tggccaggct ggccctgaac tcctgacctc aggtgatcca cctgccttgg cctcccaaag
 13141 tgctgggatt acgggcatga gccaccgtgc ccggccataa atatttcttt agccaaagta
 13201 atacattaag taatgtagca gcaagtctaa taacctgtaa tttctttctt ttttctttc
 13261 tttctttttt tttgagatga agtttttttg agatggagt caatggcaca atctcggtc
 13321 actgcaacct ccacctcctg ggttcaagcg attctcctgc ctcagcctcc caagttagct
 13381 gaactacagg cgcattgccac catgcccagc taatttttgt attttttagt gagacggggt
 13441 ttcaccatgt tggccaggct ggtcttgaac ccctgacctc aggtgatctg cctgccttgg
 13501 ccttccaaag tgctgggatt acaggcatga gccaccaggc ccagcccaat aacctttaat
 13561 ttcaacatac taataaacat aaacagtatt tcaagatttc tgcaataact ctaatgggaa
 13621 tgaaaacatc tgtggcttcc atttggtaat aagtcacagg tactgctcat attgtggtta
 13681 gttgtaaaaa gtttttggtt gttttgtttt ttccaagact tgggggaatg ggtgttggtg
 13741 ggatcaacaa gagtcttgct ctgtggccca ggctggagt caggggcagg atcttggtc
 13801 actgcaacct ccgctccca ggttcaagcg attctcctgc ctcagcctcc tgagttagct
 13861 gcattacagg catgtgccac cacgcccagc taattttttac attttttagt gagatggggt
 13921 ttcaccatgt tggcctggct ggtcttgaac tcttggcctc atgatccacc cgtctcggac
 13981 tcccagagt tgggattac aggcattgag caccacacct ggcagttgtt acatttttaa
 14041 tgaaagaaaa tgttaaattc agttattgaa aataaggagg cagtactttt ctcattccaa
 14101 ttcattgact ttctgaattt tttccccaga gtcttttggg gttctaggac cccaggttaa
 14161 ggaacccaaa aagacagggt ggtggggcat gagggggaac acatgttaat cctgtttgt
 14221 tctggtgaac aattcagatc cccactttct gagggtgccc tgctggaaga taacctgtt
 14281 tgtaattgtg ccggttcttg gacccttggg tgccttgatc atctgctaca actggctaca
 14341 tcgaagacta gcagggtcag tggctgggca gcaggcaaga ccaccaaata gtgggggacc
 14401 aagtcagctc tgaatgggaa gccaaaagag aatagaacca ggactcaaga ttaggggagc
 14461 tgggatttcc ttattctctt gtccccatgc ccaacccag gctcttctga gaaactgtga
 14521 agagaaccac ttactggatc tgtgggatcc cccagtggaa agggcagtggt gggtcactcc
 14581 aaatgtccat agggaggatg tgggggaagg gctattcatc ttccactaat cacatatttg
 14641 tttctttttg ttttcagggc aattccttga agagctacgt aagttctctt ctctctgtta
 14701 taagcagaga ataaaaagcc agggaaaggga gacagaagca acaaggaggaa gaggcgggct
 14761 attgagggat cacattccca gaggaaggga ggagctggag agcctgggtg gaggggaagc
 14821 tctcctggg aggttagagg caaagaagcc agctgttaga gacacattta caggtggcag
 14881 agaagctgga ggcactccta tctgccacct gatccattcc tccttcaactg cccctaagca
 14941 ggaatccaac cctagctggt ctcatcgcc attccaagc aactgcccag tgcctcacct
 15001 ctcatgataa ccattgaggc aggaatggag acaatgatgac cccaagggtt tttcttctcc
 15061 ctagtccaat ggttttatga tacaaactac tgacatacgt ttttcaagtt attttctct
 15121 tcttctagga aatcccttct gagtgatgtc acatcttggc aggggtggag gagagcctgg
 15181 ttgcccaggg atttgtcctt ggggacatct catccatcaa gttgcacact cactggcact
 15241 tttgctatgg ggacattcca atttgcactt tcaggaacac tctgaattcc aagtagaatt

FIG. 18 (cont.)

15301 gatttccctt cttctgtcat ctaccttttc tcttcatttt cccattttta ttacctttct
 15361 ttccattttct ctctccagtc ttccacctgg aagccctctc tggctaagga caggcagggtg
 15421 cccctctctc catcagagga cacctgtact ggagagcaac acaggatggt ctctgccatg
 15481 aactggaggc caggaatctc ctactgaaa attacagtat ggtaactttg caaatgggtg
 15541 ttgtttcttc caagactcca gccctgattg cgcaaaactg aaaggcatgt gaagggaagg
 15601 aagaggaaga gtgcaaaaca ttgaagagag agctgagtga gctgaagagt gaggatatga
 15661 gtagcccca cccaaacctg gagatgggga gaaacctaca gaatactagc cagagctcct
 15721 ccttgcttg gcagcctact agggacctgg ggaagcaaaa acgaaagctg ggcaacatgc
 15781 ctgctttaga atgttttct tctacttaca catcttccac aggtctcaga atctttcctt
 15841 cctctcatcc ttttctccta tctacatatc tatcagagta tccactgttt attcaacaac
 15901 tactacttga tggtcagaca caaacaaca agctagggtg taattaataa agatacaggt
 15961 tttggccggg tgcggtggct cagcctgtga atcccagcac tttgggaggc cgaggcgggc
 16021 gaatcacgag gtcaggagtt caagaccagc ctggccaaca tgggtgaaacc ccatctctac
 16081 taaaaataca aacaattaac tgagcatagt ggtgggcacc tataatacca gctactccgg
 16141 aggctgaggc aggagaatcg cttgaacca ggaggcagag gttgcagtga gctgagatcg
 16201 cgccactgca ctctagccgg agtgacagag taagactctg tctcaaaaaa aaataaataa
 16261 ataaataaat aaataaatpa ataaataaaa aataataata caagttttca taagcacact
 16321 tctaaccctt tgtctttfat gtatttctt ccttatccac gcacctgtct cctctactc
 16381 cagcctcatt accccagagg tcagtcctca ggaaaactaa acacaaagaa agagctcagt
 16441 cagaaaggcc atttatttat gtttcaagat gctcactgcc tcctttgttt tgtctccttt
 16501 gcaggccttc tctcttaggc ctcttctcct gggggtatgg atcctggggg gagattgatc
 16561 acctccatgc ttccattcct ccccagccat agtggggaca tcatgagaga agccaagcca
 16621 ctggcccgag atcaccgggc atttatgggt gctgctctgg cacaggctct tgcctttata
 16681 gcccctccag tgatccataa ggccctcttt ctccccaaag gagaggctac agatagggca
 16741 aaggtagctc ttctgcttcc agtgggtctg ctgggtgtctg accagcctgg aaaatgagct
 16801 gaaagacttg ctgcaatgga agcagtagtt gggcggtct gtgaggtggc ccttctggtg
 16861 tctggagaga taggatttct tgctaaaagt caaagaacaa tgggggcaac agaagacatt
 16921 gagtcttgag ggcttcaactg gatgagagtt ggatctggca tctgacaga gggttccagt
 16981 gatgggtgcc tgggtcctgg tcacagggtgc ttggttctta agtacagatg cctggttctg
 17041 ggccatagga cctcagttc taaatatggg ttctgggac ctggccactg gtgcatggtt
 17101 cacatccaaa agccctgga tggacctctg gcttctggcg atgggtgtct ggaattcagc
 17161 ctgggtgcct ggaatectca aagtaactc ctgggtttcca tccactggct cctggtttt
 17221 gtgtatcttc tgggtggcgtt tgagctcaga ctggtcccg aagctcttcc cacacacaga
 17281 gcatgaatgg ggccggtaac ccagatggac gggcggtga cgacttagtc cagaagcatc
 17341 acagtaggtc ttgtcacaga gcgtgcaaca gaagggcctc tccccaaagt gcatgcgtct
 17401 gtgatagctg agggacttgg ggctccgaaa caacttccca cactgactgc agctgttagt
 17461 cagcttggga ttgtgaacaa actggtggct atagaggtag gagcgctgc tgaacattt
 17521 ggcacagggt tagcaaaa

FIG. 18 (cont.)

1 tttgtatgtc attgcaggat tcatgctttc cagtgtgtca tctatggaac tgcctctttc
 61 ttcttccttt atggggccct cctgctggct gagggcttct acaccaccgg cgctgtcagg
 121 cagatctttg gcgactacaa gaccaccatc tgcggcaagg gcctgagcgc aacggtaaca
 181 gggggccaga aggggagggg ttacagaggc caacatcaag ctcattcttt ggagcgggtg
 241 tgtcattgtt tgggaaaatg gctaggacat cccgacaagg tgatcatcct caggattttg
 301 tggcaataac aaggggtggg gggacaa

FIG. 14

1 ctgtatcagt gctcctcgtc gcctcactgt acttcacgga agagacttgg ttgactggcc
61 acttgaggcg gaatcaggag acattcccaa ctcagagaga ctgagcccta gctcgccac
121 ttgctggaca agatgatatt cttaccacc ctgcctctgt tttggataat gatttcagct
181 tctcgagggg ggcactgggg tgcctggatg ccctcgtcca tctcagcctt cgagggcacg
241 tgtgtctcca tcccctgccg tttcgacttc ccgatgagc tcagaccggc tgtggtacat
301 ggcgtctggt atttcaacag tccctacccc aagaactacc cgccagtggg cttcaagtcc
361 cgcacacaag tgggccacga gagcttccag ggccgtagcc gcctgttggg agacctgggc
421 ctacgaaact gcacctgct tctcagcacg ctgagccctg agctgggagg gaaatactat
481 ttccgaggtg acctggggcg ctacaaccag tacaccttct cggagcacag cgtcctggac
541 atcatcaaca cccccaacat cgtggtgccc ccagaagtgg tggcaggaac ggaagtagag
601 gtcagctgca tggtgccgga caactgccc gagctgcgcc ctgagctgag ctggctgggc
661 cagcaggggc taggggagcc cactgttctg ggtcggctgc gggaggatga aggcacctgg
721 gtgcaggtgt cactgtctaca cttcgtgcct actagagagg ccaacggcca ccgtctgggc
781 tgtcaggtgt ccttcccaa caccaccttg cagttcgagg gttacgccag tctggacgtc
841 aagtaccccc cggtgattgt ggagatgaat tcctctgtgg aggccattga gggctccac
901 gtcagcctgc tctgtggggc tgacagcaac ccgccaccgc tgctgacttg gatcgggat
961 gggatggtgt tgagggaggc agttgctgag agcctgtacc tggatctgga ggaggtgacc
1021 ccagcagagg acggcatcta tgcttgccctg gcagagaatg cctatggcca ggacaaccgc
1081 acggtggagc tgagcgtcat gtatgcacct tggagccca cagtgaatgg gacggtggtg
1141 gcggtagagg gggagacagt ctccatcctg tgttccacac agagcaaccc ggacctatt
1201 ctcaccatct tcaaggagaa gcagatcctg gccacggtca tctatgagag tcagctgcag
1261 ctggaaactcc ctgcagtgaac gcccaggagc gatggggagt actggtgtgt agctgagaac
1321 cagtatggcc agagagccac cgccttcaac ctgtctgtgg agtttgctcc cataatcctt
1381 ctggaatcgc actgtgcagc ggccagagac accgtgcagt gcctgtgtgt ggtaaaatcc
1441 aaccgggaac cctccgtggc ctttgagctg ccttcccgca acgtgactgt gaacgagaca
1501 gagagggagt ttgtgtactc agagcgcagc ggccctcctgc tcaccagcat cctcacgctc
1561 cggggtcagg cccaagccc accccgcgtc atttgtacct ccaggaacct ctacggcacc
1621 cagagcctcg agctgcctt ccagggagca caccgactga tgtgggccaa aatcggccct
1681 gtgggtgctg tggtcgcctt tgccatcctg attgccattg tctgctacat caccagaca
1741 agaagaaaaa agaacgtcac agagagcccc agcttctcag cgggagacaa cctcatgtc
1801 ctgtacagcc ccgaattccg aatctctgga gcacctgata agtatgagag tgagaagcgc
1861 ctgggggtccg agaggaggct gctgggcctt aggggggaac cccagaact ggacctcagt
1921 tattccact cagacctggg gaaacgacc accaaggaca gctacacctt gacagaggag
1981 ctggctgagt acgcagaaat ccgagtcaag tga

FIG. 20

